

DIMM BASE BOARD

This is multi-purpose board because it contains all of important interfaces.

Individual versions differ from each other by using plugged DIMM Module (containing CPU, RAM, Flash, audio). To extend FLASH storage space, plug Compact FLASH card in base board. Furthermore, there are two network interfaces.

The card contains two 3,3V PCMCIA slots and one 3,3V Compact FLASH connector. Two of them can be used at the same time.

The board can be either powered by AC adapter or Power LAN system via power cord (outdoor application).

The board can be supplied in stylish case for indoor or outdoor application as well as with software for WLAN application, upon customer's request.

Nowadays we are preparing this board with LINUX operating system implemented. As the board communication interface serves RS232 connector. To work with on-board software easily and effectively, use terminal station. You may also use SSH network protocol. Your own applications can be stored in DIMM on-board FLASH memory or to the external Compact FLASH card. In the event that you are not interested to use software, we developed, we will deliver the board without it.

Hardware Specifications

- ▶ 2 x 100Mb Ethernet
- ▶ 2 x PCMCIA slot, 1 x Compact Flash socket, 1 x IDE connector - in real time can work:
 - 2 x PCMCIA
 - 1 x PCMCIA + 1 x Compact Flash
 - 1 x PCMCIA + IDE
 - 1 x Compact Flash + IDE
- ▶ RS232 connector (terminal output)
- ▶ IR serial interface
- ▶ SPI interface
- ▶ UART serial connector (3.3-5V)
- ▶ JTAG connector
- ▶ Ac'97 audio (stereo LINE IN/OUT, MIC IN)
- ▶ RESET switch
- ▶ 6 - 48V power supply
- ▶ Power over LAN supply support
- ▶ Standard display interface with Touch screen
- ▶ Optional high color TFT display 640x480
- ▶ ATA2 interface for connecting HDD, CD-ROM, etc. (5V power supply)
- ▶ 2 x PS/2 - mouse and keyboard - controlled by programmable IO coprocessor
- ▶ Real Time Clock battery backup



Possible DIMM Module configuration:

- ▶ CPU XScale PXA255 200 - 400Mhz
- ▶ FLASH 8 - 32MB
- ▶ SDRAM 32 - 64 MB

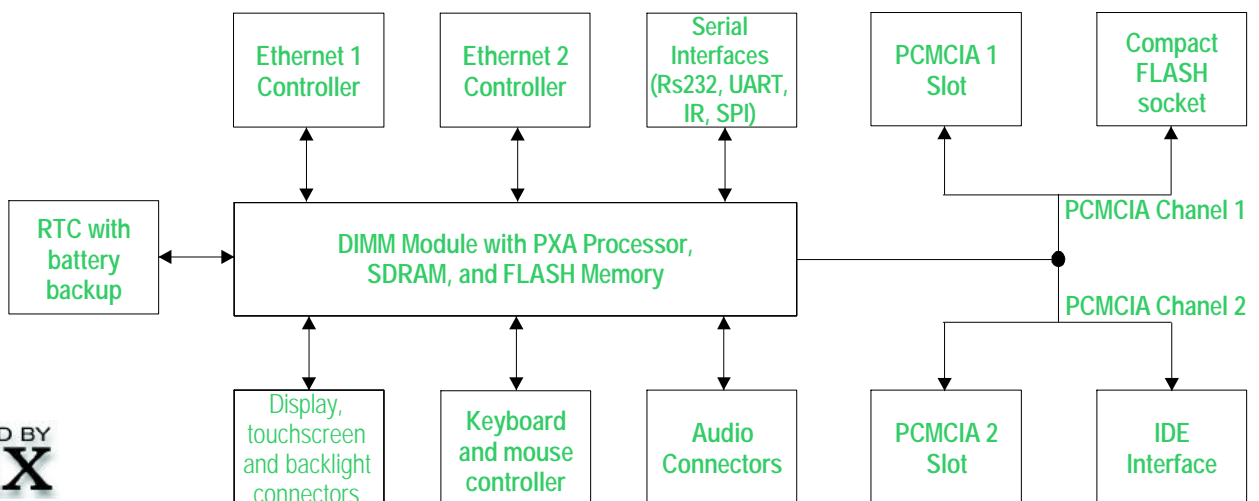
Software specifications

Linux 2.4

- ▶ File systems (ROMFS, JFFS2, EXT2, NFS, RAMFS)
- ▶ Terminal
- ▶ SSH, TFTP
- ▶ LINUX base utilities (Bash, Vi,...)
- ▶ Network drivers
- ▶ DemoMP3player

Typical Application

- ▶ OutdoorWLAN,ISP
- ▶ Telecommunications
- ▶ Automatization,Industry
- ▶ Mobil applications (GSM/GPRS)
- ▶ Security andmeasuring technics
- ▶ Automobile industry
- ▶ Telemetry



DIMM Base Board block diagram